# **BookletChart**

Grays Harbor

(NOAA Chart 18502)



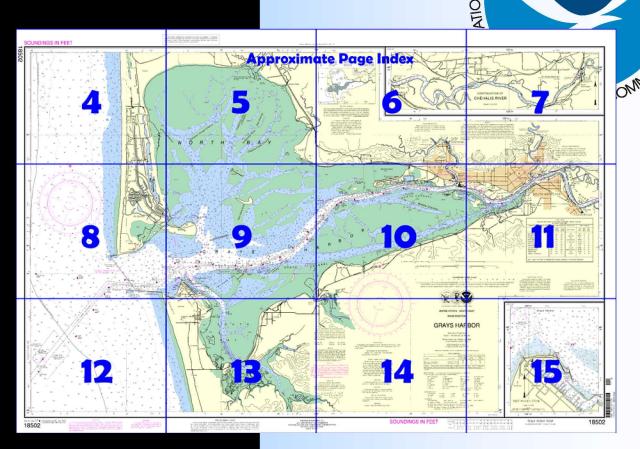
A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

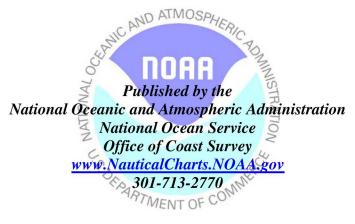
- ☑ Complete, reduced scale nautical chart
- ✓ Print at home for free
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NOAA

Home Edition (not for sale)

- ☑ United States Coast Pilot excerpts
- Compiled by NOAA, the nation's chartmaker.





### **What are Nautical Charts?**

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

#### What is a BookletChart $\stackrel{\text{\tiny TM}}{=}$ ?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <a href="http://www.NauticalCharts.NOAA.gov">http://www.NauticalCharts.NOAA.gov</a>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

#### **Notice to Mariners Correction Status**

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 7, Chapter 11 excerpts] (75) Grays Harbor entrance is about 40 miles N of Cape Disappointment and 93 miles S of Cape Flattery. The bay and its tributaries furnish an outlet to an extensive timber area. Grays Harbor is an important lumber port in the foreign and domestic trade. Oil is delivered by tanker; logs, lumber, pulpwood, and wood chips are shipped out.

(76) The bay at the entrance is about 2 miles wide, but shoals extending S from Point Brown contract the navigable

channel to a width of 0.7 mile. From its entrance the bay extends E for 15 miles to the mouth of Chehalis River. The bay is filled by shoals and flats; these bare at low water and are cut by numerous channels.

- (77) **Point Chehalis** is low and sandy and is bare of trees for 1.5 miles S of its extremity. A jetty extends seaward from the end of the point. A Coast Guard lookout tower is prominent on the point.
- (78) **Grays Harbor Light** (46°53.3'N., 124°07.0'W.), 123 feet above the water, is shown from a 107-foot white truncated octagonal pyramidal tower on the seaward side of Point Chehalis.
- (79) **Point Brown,** the N entrance point, is 2.5 miles N of Point Chehalis; it is low, rounding, and sandy, with shoals extending S and W which, together with those extending W from Point Chehalis, form the bar at the entrance. The point is wooded to within 0.5 miles of the extremity. A jetty extends W from the point. A small-craft basin is NE of the point. The entrance to the basin is marked by lights; the approach channel is marked by a line of lighted and unlighted dolphins. A submerged jetty extends about 0.6 mile NE from the N side of the basin entrance. A 30-ton mobile hoist is at the basin. Reported depths of 5 feet are available through the natural channel leading to the basin with similar depths inside the basin.

## Prominent features

- (80) The country about Grays Harbor is flat and featureless, with few conspicuous objects. **Saddle Hill**, about 310 feet high, 8 miles N of the entrance and 2 miles inshore, is the most conspicuous feature.
- (81) Grays Harbor Light shows prominently on a closer approach to the entrance. A micro tower, painted a red and white checkerboard pattern, is 3.6 miles NNE of the N jetty and a large rust-colored standpipe, lighted at night by floodlights, is 2.5 miles SSE of Point Chehalis. Both these objects are prominent on a closer approach, and the standpipe is reported to be visible for a considerable distance at night. In clear weather **Brackenridge Bluff**, on the N shore 6 miles inside the entrance, is quite prominent. It is a reddish cliff about a mile long, rising in two places to a height of 80 feet; from seaward it is visible only through the entrance. (82) In clear weather **Neds Rock**, off Brackenridge Bluff, shows prominently from inside the entrance; it is reddish.
- (85) The entrance to Grays Harbor, between two jetties, is marked by two lighted ranges and buoys. Inside the bay, a Federal project channel provides depths of 36 feet to about Cow Point, thence 30 feet to Cosmopolis, about 9 miles above the bay entrance. The channel inside the bay to Cosmopolis is well marked. There is no deep-draft navigation above Cosmopolis.
- (86) The jettied entrance has a tendency to shoal at the curve on the Point Chehalis side. Submerged sections of the N and S jetties extend seaward about 0.2 and 0.9 mile, respectively, from the visible sections. A lighted horn buoy, equipped with a high intensity flashtube, is off the submerged section of the S jetty.
- (87) The best anchorage is N of Westport and SE of **Damon Point** in 30 to 60 feet. The holding ground is good, and there is more swinging room here than elsewhere in the harbor.
- (101) **Grays Harbor Coast Guard Station** is on the S side of Westhaven Cove. The town of **Westport**, a summer resort and fishing town, is about a mile S of Westhaven Cove.
- (105) **Bay City,** 3.7 miles SE from Westhaven Cove, on the E shore of **South Bay** formerly was a whaling station. The wharf, built originally for the old fertilizer factory, is now in ruins, and there are no marine facilities now at Bay City. The fixed highway bridge at Bay City has a clearance of 39 feet.
- (106) For the rest of the 2.6-mile distance, South Bay is crooked and full of shoals to the mouth of **Elk River**, which is used some for logging. (107) **Markham**, site of a large cranberry plant and a small seafood company, is on the S side of the bay at the mouth of **Johns River**, a shallow stream crossed by a fixed highway bridge with clearance of 33 feet, near the entrance. Above the bridge, the stream is navigable only for rowboats.
- (108) **Hoquiam** and **Aberdeen** are twin cities about 14 miles above the harbor entrance. Hoquiam is on the river of that name, and Aberdeen is on Chehalis River. South Aberdeen is across the river, but is part of the city of Aberdeen.

# **Table of Selected Chart Notes**

# Corrected through NM Apr. 28/07 Corrected through LNM May 01/07

#### HEIGHTS

Heights in feet above Mean High Water.

#### Mercator Projection Scale 1:40,000 at Lat 46° 56'

North American Datum of 1983 (World Geodetic System 1984)

#### SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

#### WISHKAH RIVER BRIDGES

WISHKAH HIVEH BHIDGES
The two swing bridges and one bascule
bridge crossing the Wishkah River have a horizontal clearance of 75 feet and a vertical clearance of 8 feet. The fixed bridge has a horizontal
clearance of 75 feet and a vertical clearance of
feet.

#### CAUTION

#### BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

#### AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

#### POLLUTION REPORTS

Report all spills of oil and hazardous sub-stances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

#### CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

#### PLANE COORDINATE GRID

The Washington State plane coordinate grid, South Zone, (based on NAD 1927) is indicated

South Zone, (based on NAD 1927) is indicated on this chart by dashed ticks at 10,000 fool intervals. The last three digits are amitted. The Corps of Engineers local plane coordinate grid is shown by datted ticks at 10,000 fool intervals. The origin is East Base, 1909. Both grids ore shown on the Westhaven Cove inset at 2,000 foot intervals.

#### CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution. Station positions are shown thus:

Station positions are shown thus:

(Accurate location) o(Approximate location)

# SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

## RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been with the place of the pla omitted from this chart.

#### WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

(Apr 2007)

#### NOTE S

Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

## NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Astoria, OR Olympia, WA KEC-91 162.40 MHz WXM-62 162.475 MHz

Note A Navigation regulations are published in Chapter 2, U.S. Coast Pliot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Washington or at the Office of the District Engineer, Corps of Engineers in Seattle, Washington

COLREGS: International Regulations for Preventing Collisions at Sea, 1972. Demarcation lines are shown thus:

#### CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

Additional information can be obtained at nauticalcharts.noaa.gov.

#### AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers and U.S. Coast Guard.

#### SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

#### NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The P-nautical mile Natural Resource Boundary of the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

### ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aid	s to Navigation (lights a	re white unless oth	erwise indicated):		
	AERO aeronautical	G green		Mo morse code	R TR radio tower
	Al alternating	IQ interru	oted quick	N nun	Rot rotating
	B black	Iso isophi	ise	OBSC obscured	s seconds
	Bn beacon	LT HO lighthouse		Oc occulting	SEC sector
	C can	M nautical mile		Or orange	St M statute miles
	DIA diaphone	m minutes		Q quick	VQ very quick
	F fixed	MICRO TR microwave tower		R red	W white
	FI flashing	Mkr marker		Ra Ref radar reflector	WHIS whistle
				R Bn radiobeacon	Y yellow
Bott	om characteristics:				
	Blds boulders	Co coral	gy gray	Oys oysters	so soft
	bk broken	G gravel	h hard	Rk rock	Sh shells
	Cy clay	Grs grass	M mud	S sand	sy sticky
Mis	cellaneous:				

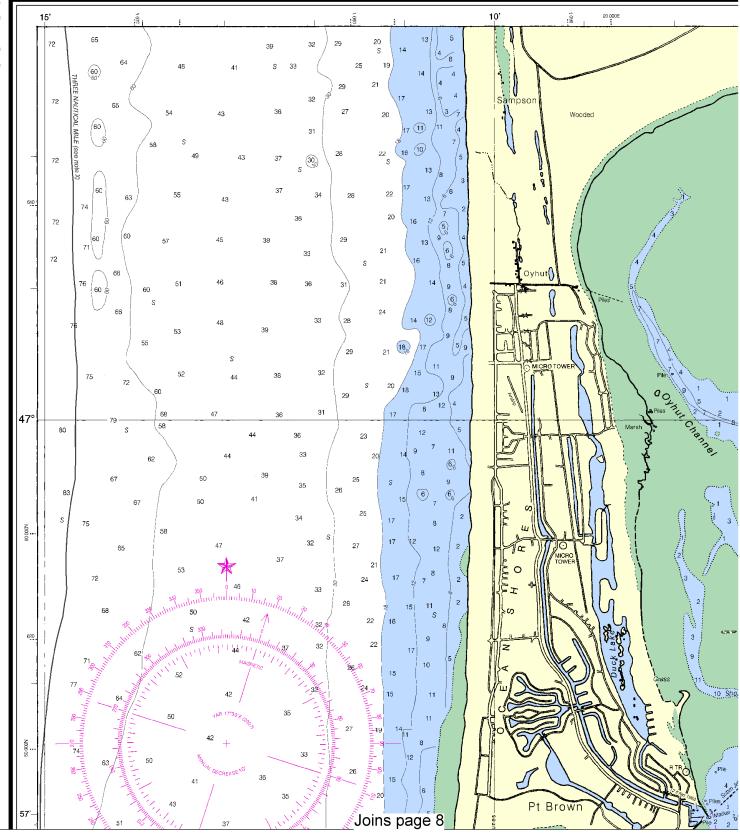
Obstn obstruction PD position doubtful Subm submerged PA position approximate Rep reported ED existence doubtful

21, Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

PLACE	Height referred to datum of soundings (MLLW)					
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water		
		feet	feet	feet		
Montesano, Chehalis River	(46°58'N/123°36'W)	8.2	7.7	0.9		
Aberdeen, Grays Harbor	(46°58'N/123°51'W)	10.1	9.4	1.5		
	ashes () located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, de predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.					

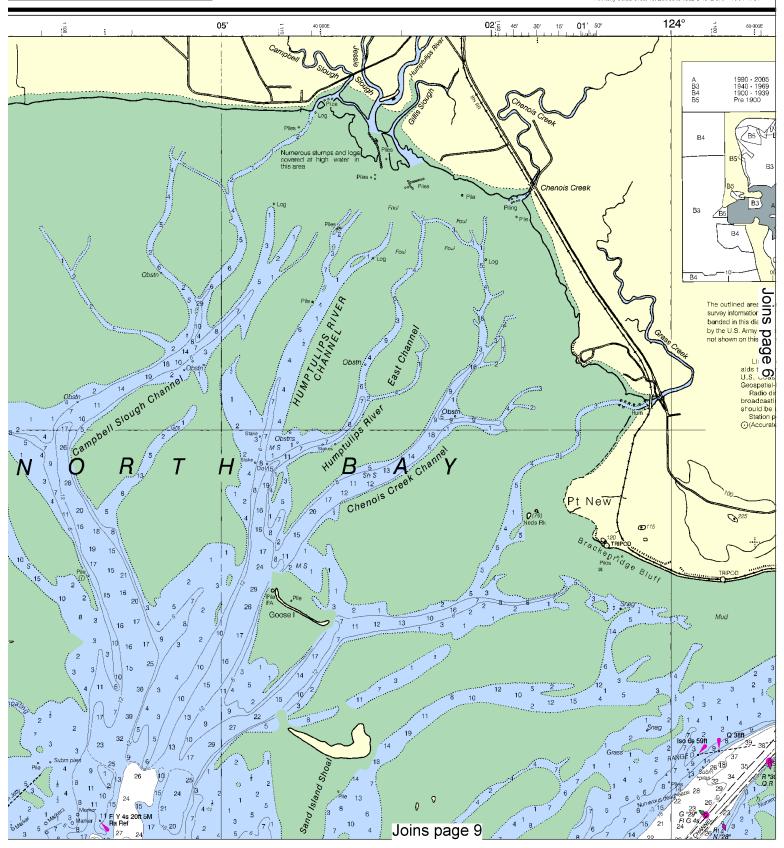
# **SOUNDINGS IN FEET**

18502

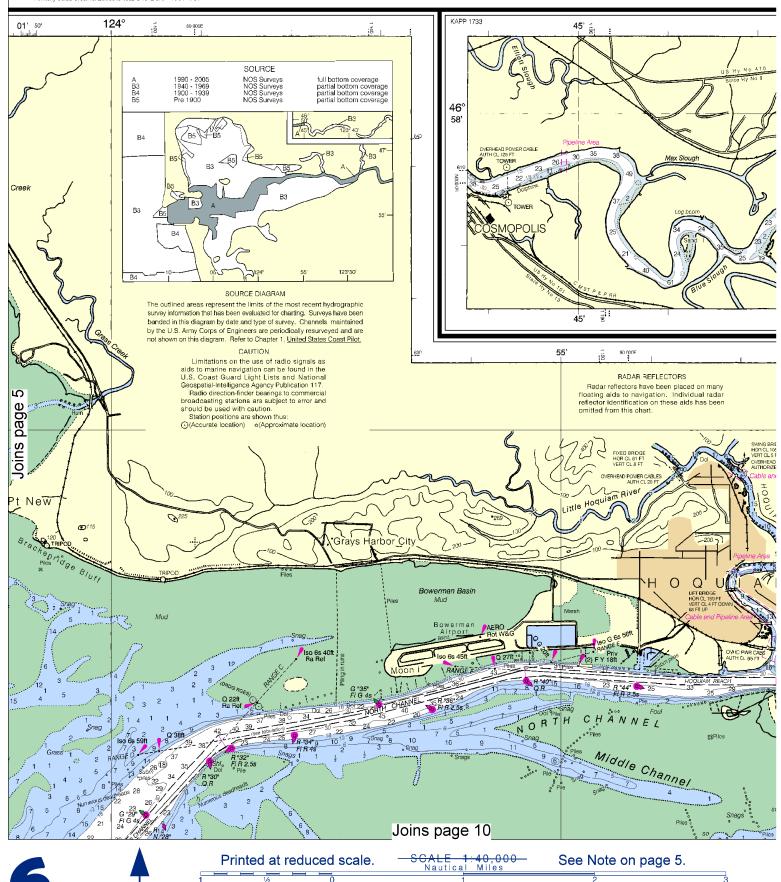




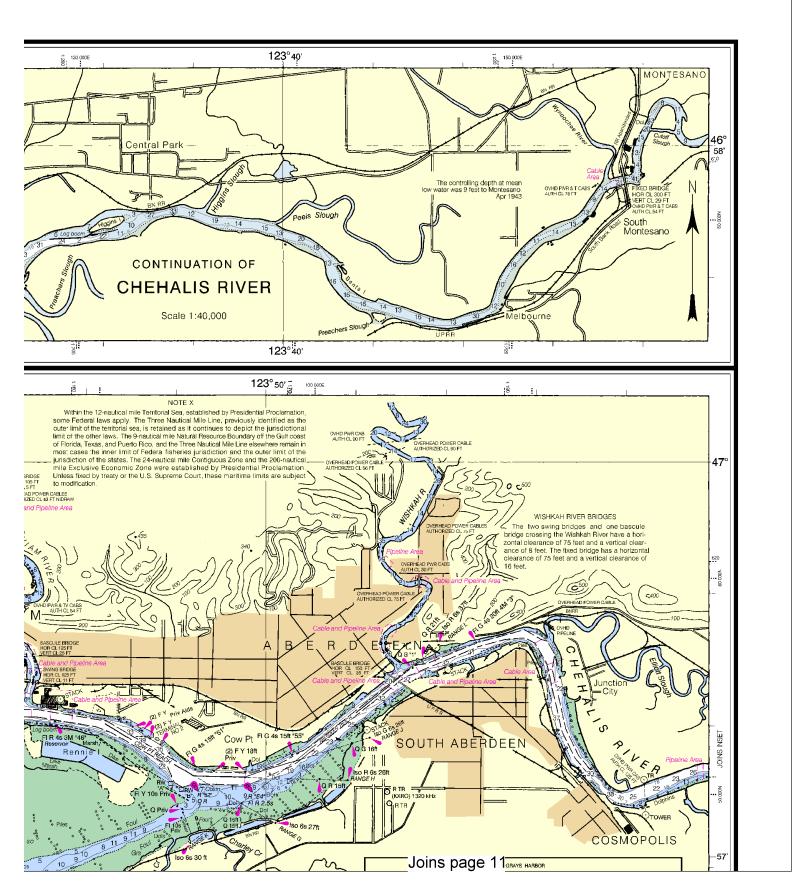




This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:53333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

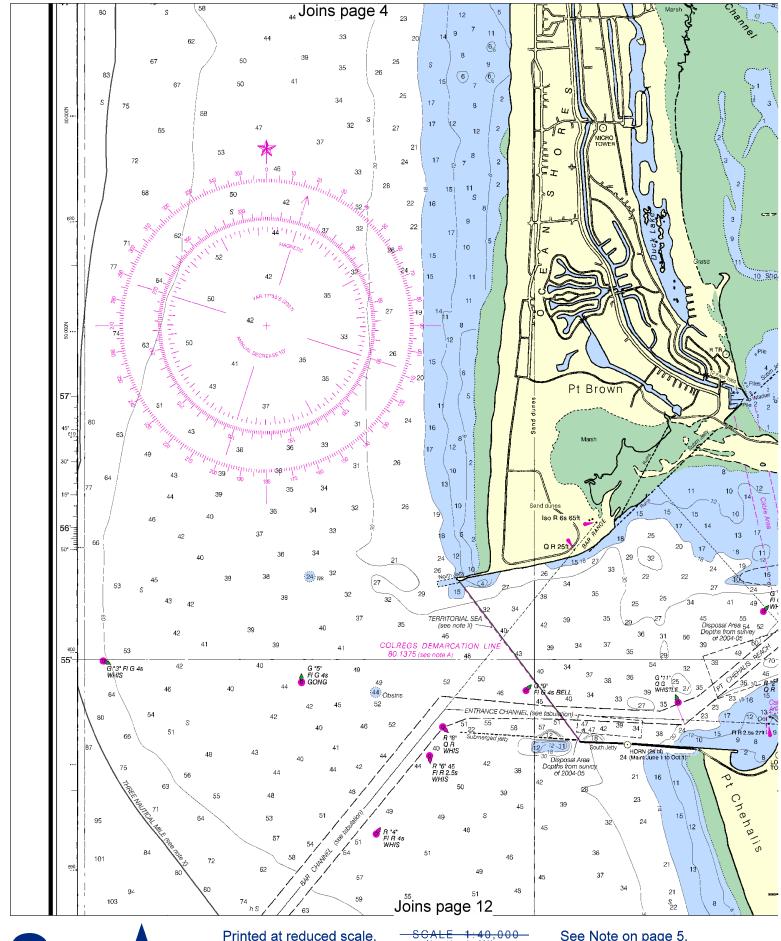






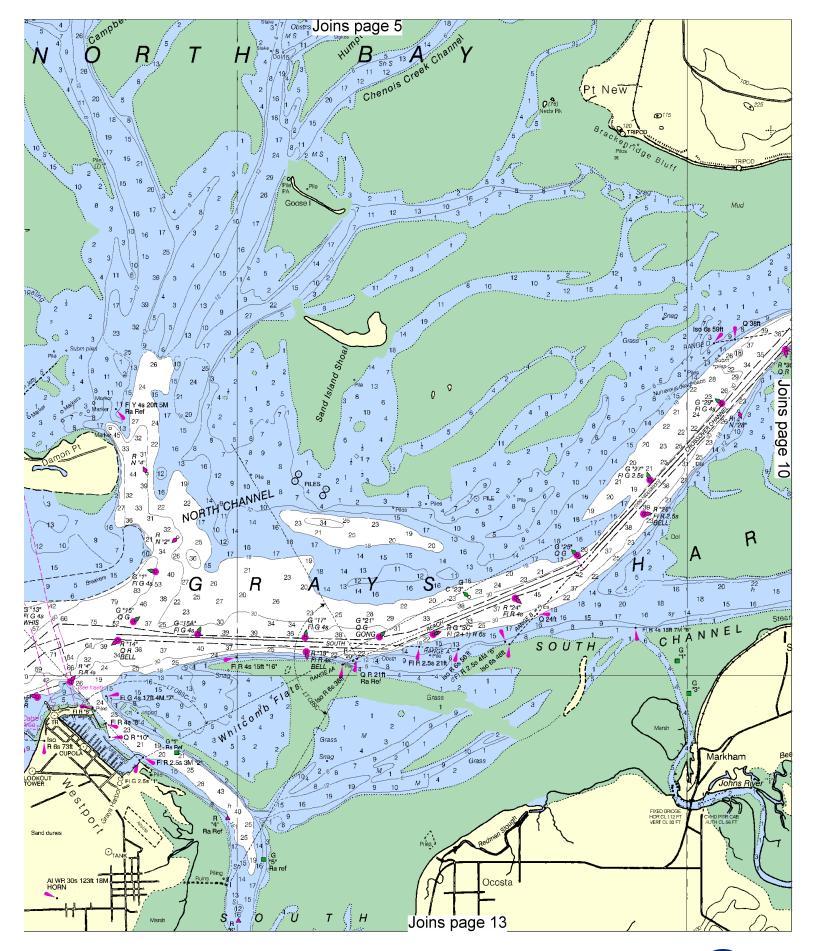




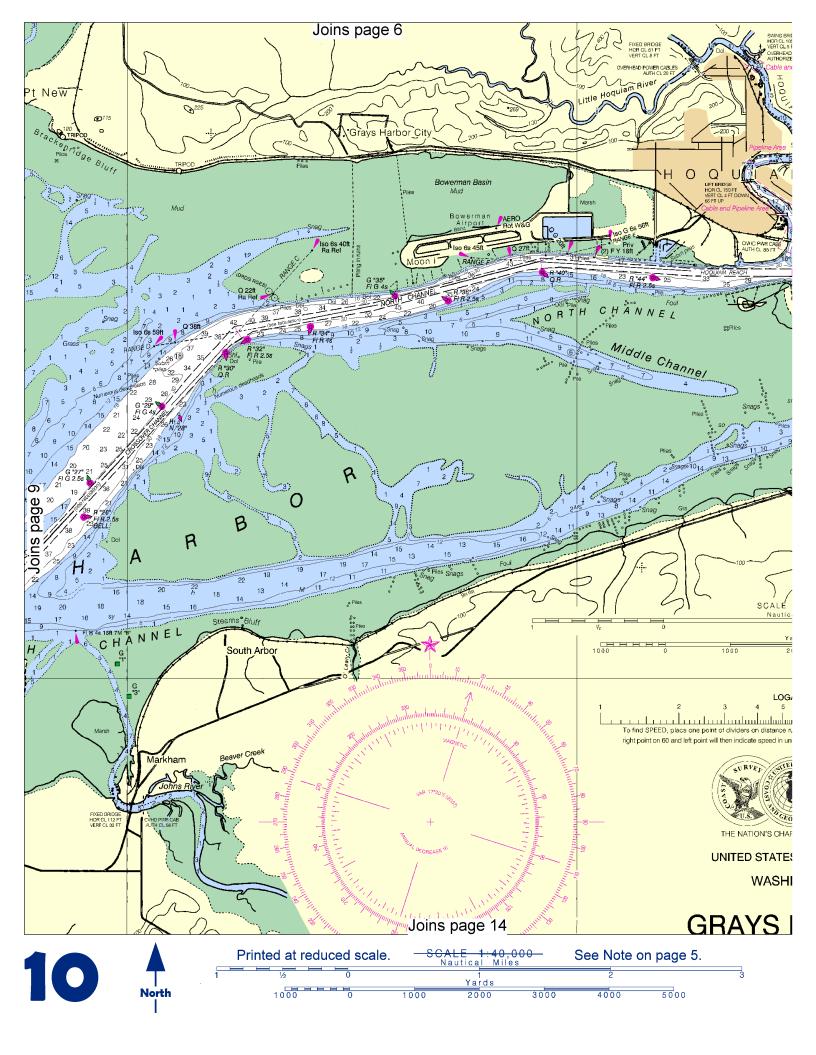


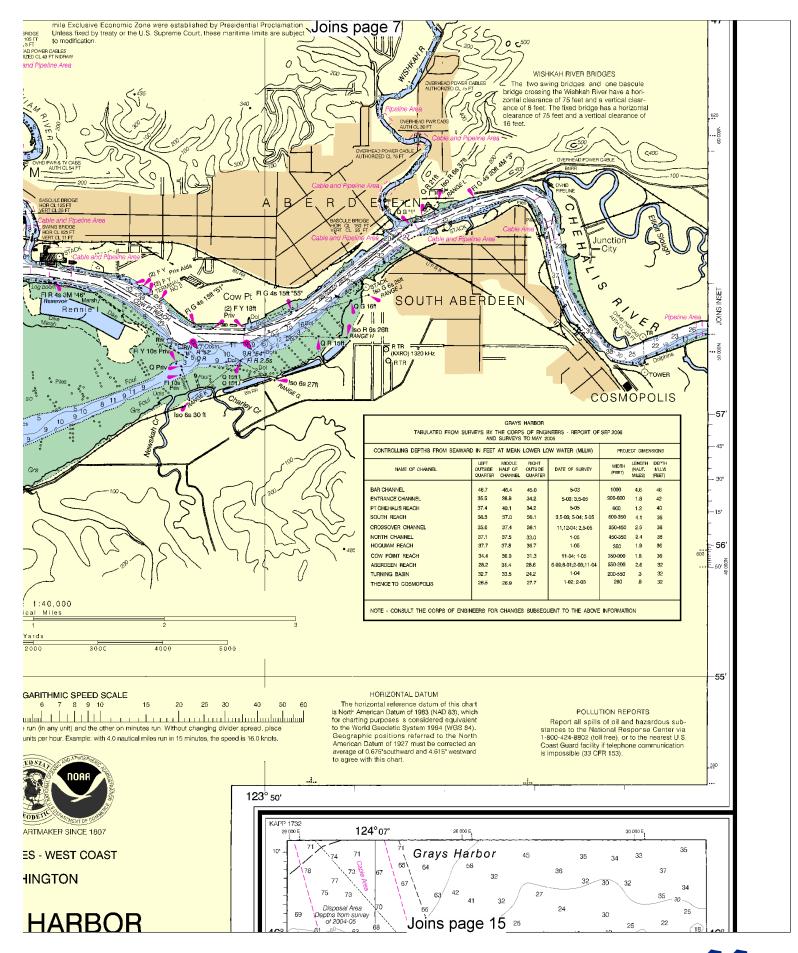


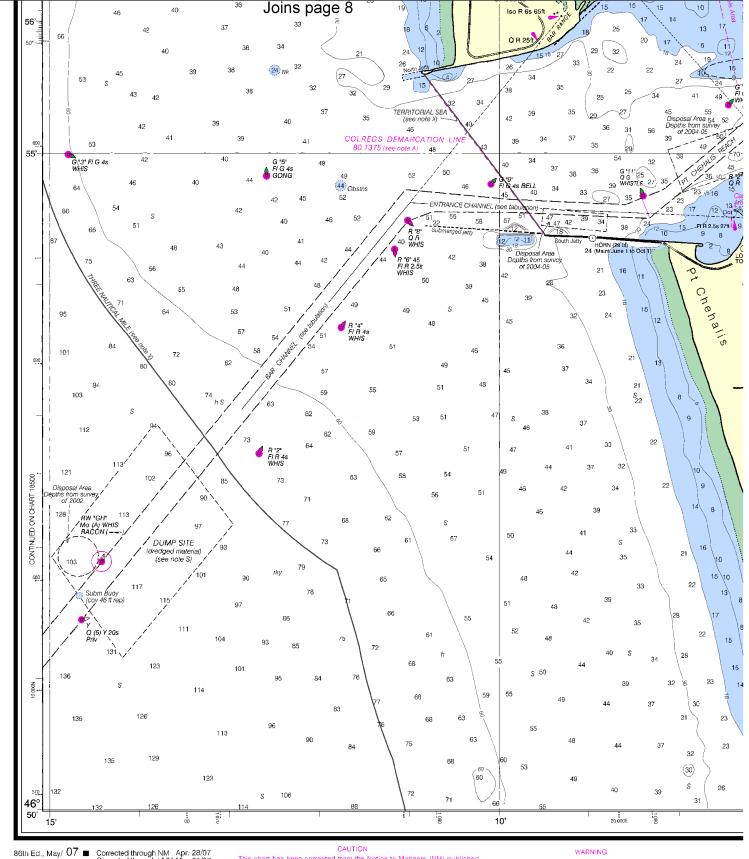












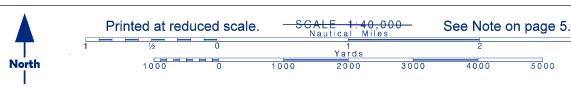
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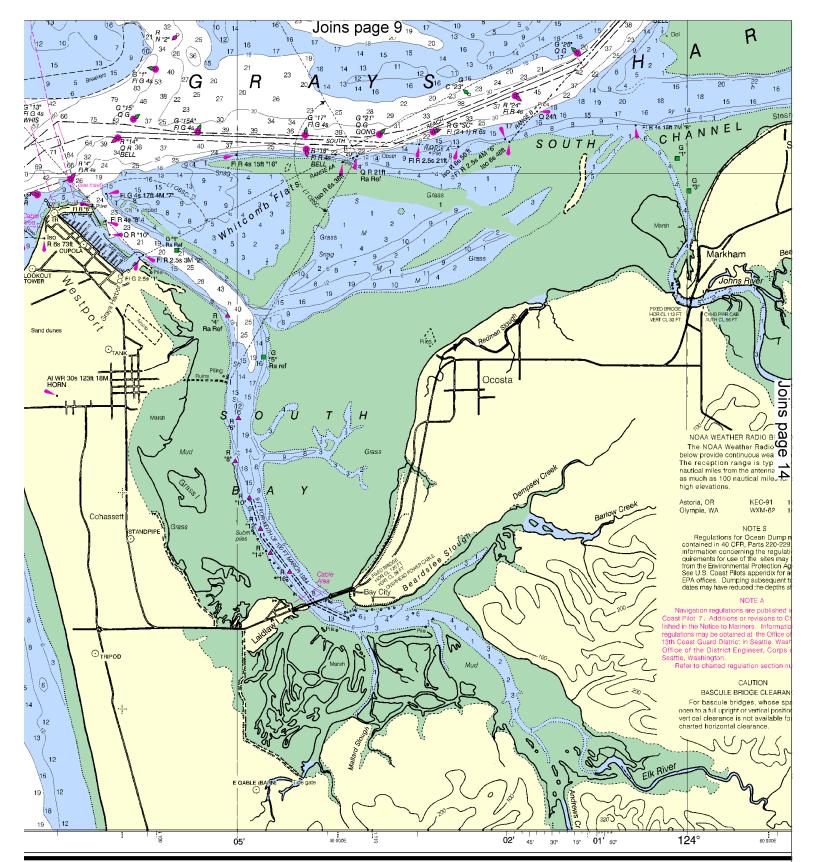
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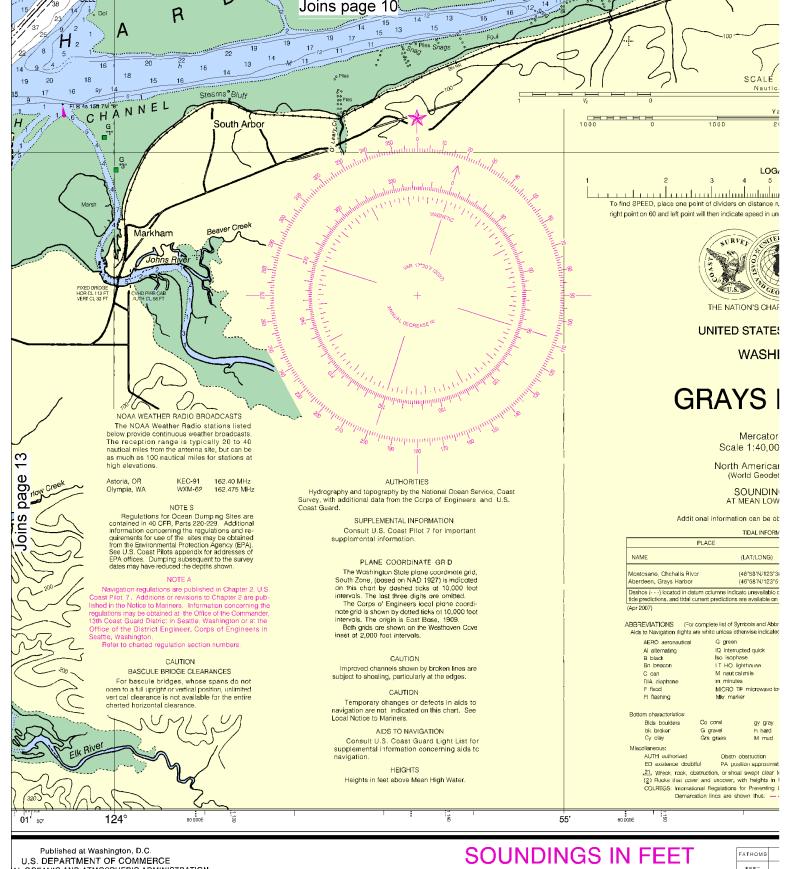




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NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mar ners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5.8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, http://NauticalCharts.gov, help@Nau:loalCharts.gov, or OceanGrafix at 1-877-58CHART, http://OceanGrafix.com, or help@OceanGrafix.com.

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COAST SURVEY

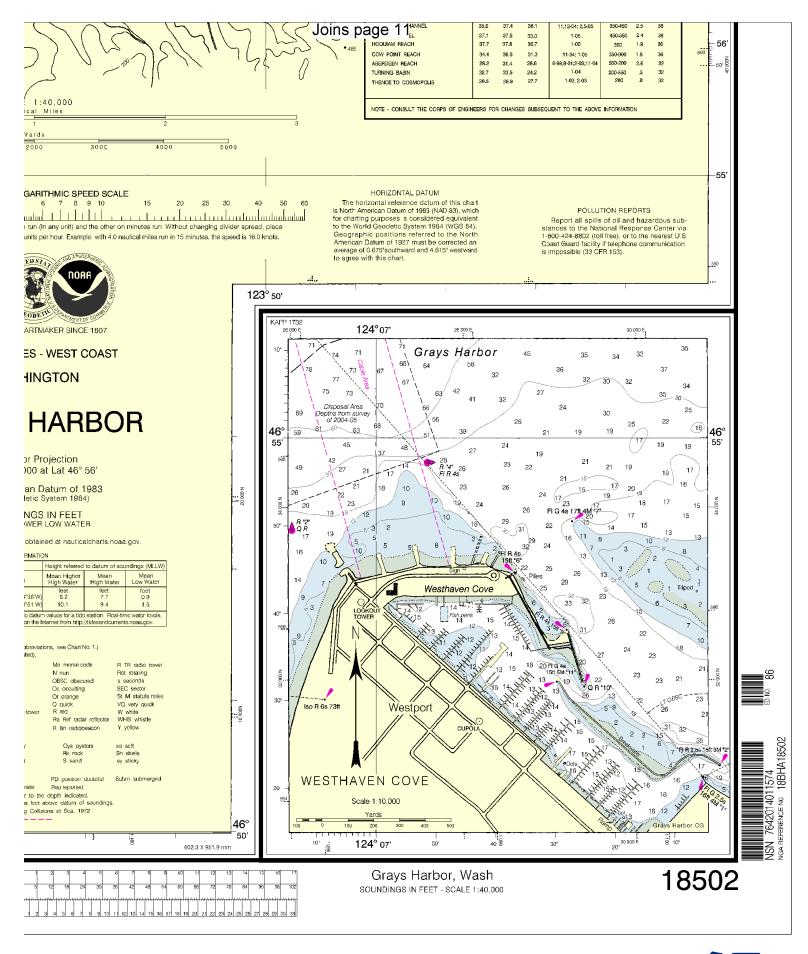


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# **EMERGENCY INFORMATION**

#### VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

## Channel 16 – Emergency, distress and safety calls

to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

#### **Distress Call Procedures**

- 1. Make sure radio is on.
- 2. Select Channel 16.
- 3. Press/Hold the transmit button.
- 4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- 6. Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY Call.

#### HAVE ALL PERSONS PUT ON LIFE JACKETS !!

**Mobile Phones** – Call 911 for water rescue.

Coast Guard Search & Rescue – 206-220-7001 Coast Guard Astoria – 503-861-6211 Commercial Vessel Assistance – 1-800-367-8222

<u>NOAA Weather Radio</u> – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

<u>Getting and Giving Help</u> – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



# NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: <a href="https://www.NauticalCharts.NOAA.gov">www.NauticalCharts.NOAA.gov</a>.

Official Print-on-Demand Nautical Charts — These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

# Official Electronic Navigational Charts (NOAA ENCs®) -

ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

# Official Raster Navigational Charts (NOAA RNCs<sup>™</sup>) –

RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at <a href="https://www.NauticalCharts.NOAA.gov">www.NauticalCharts.NOAA.gov</a>.

Official BookletCharts<sup>™</sup> – BookletCharts<sup>™</sup> are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is <a href="https://www.NauticalCharts.gov/bookletcharts">www.NauticalCharts.gov/bookletcharts</a>.

Official PocketCharts<sup>TM</sup> – PocketCharts<sup>TM</sup> are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at <a href="https://www.NauticalCharts.NOAA.gov">www.NauticalCharts.NOAA.gov</a>.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: <a href="https://www.Noa.gov">www.Noa.gov</a>, <a href="